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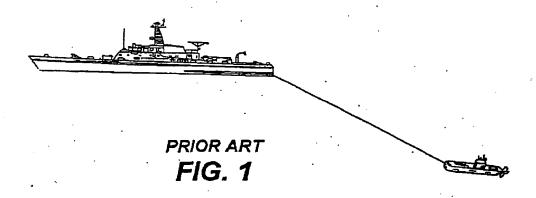
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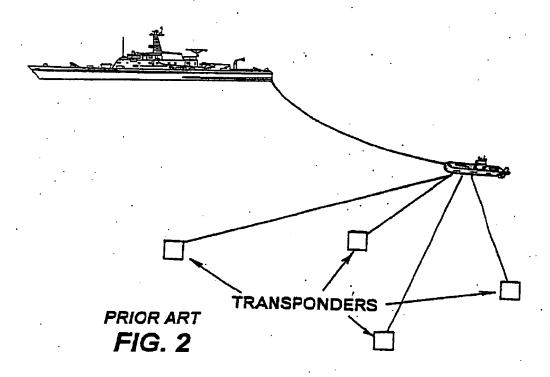
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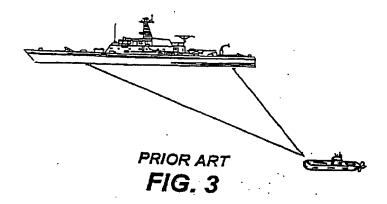
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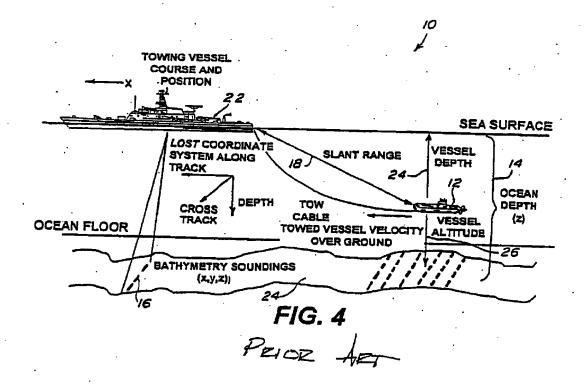
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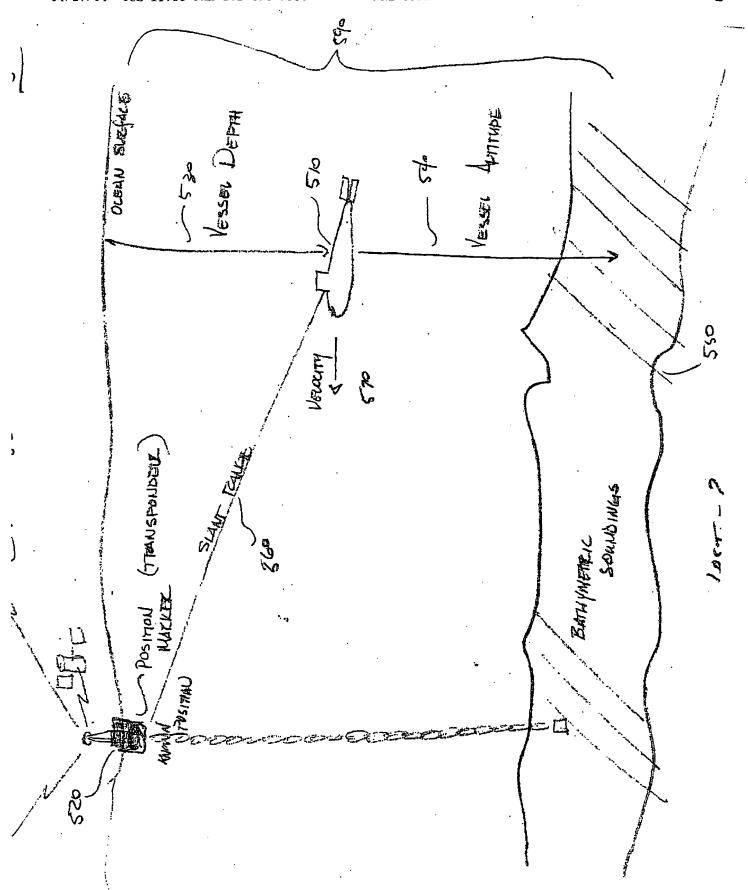
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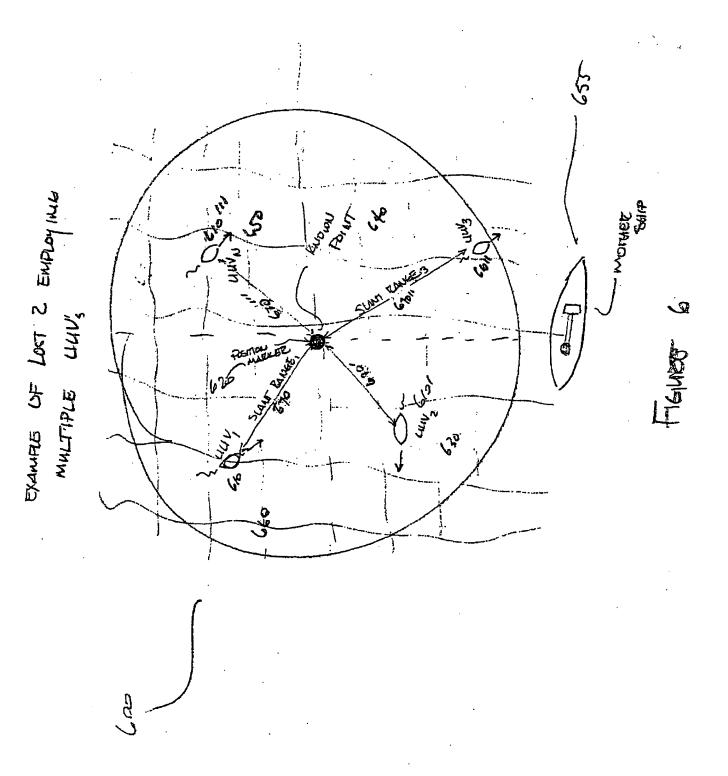


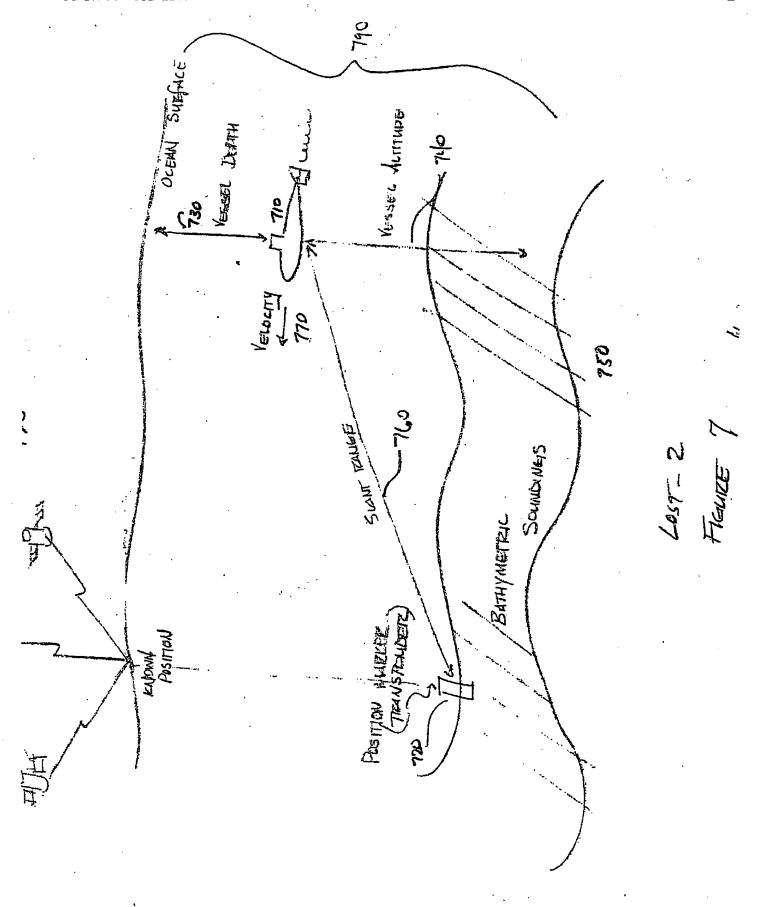






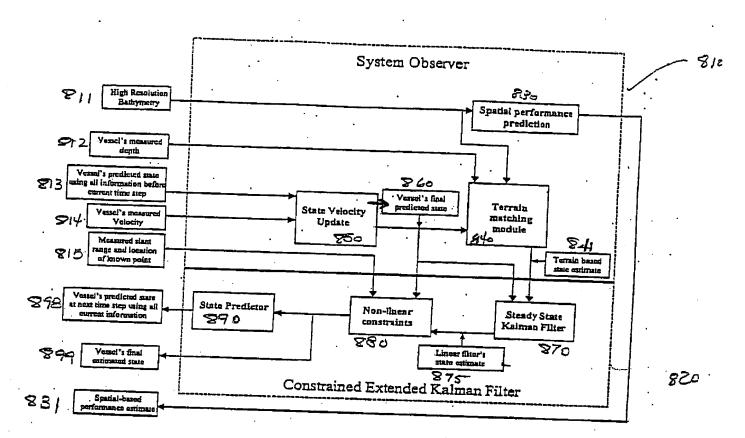






PAGE 27/36 \* RCVD AT 4/27/2004 11:29:37 AM [Eastern Daylight Time] \* SVR:USPT -EFXRF-1/2 \* DNIS:8729306 \* CSID:202 404 7380 \* DURATION (mm-ss):13-02

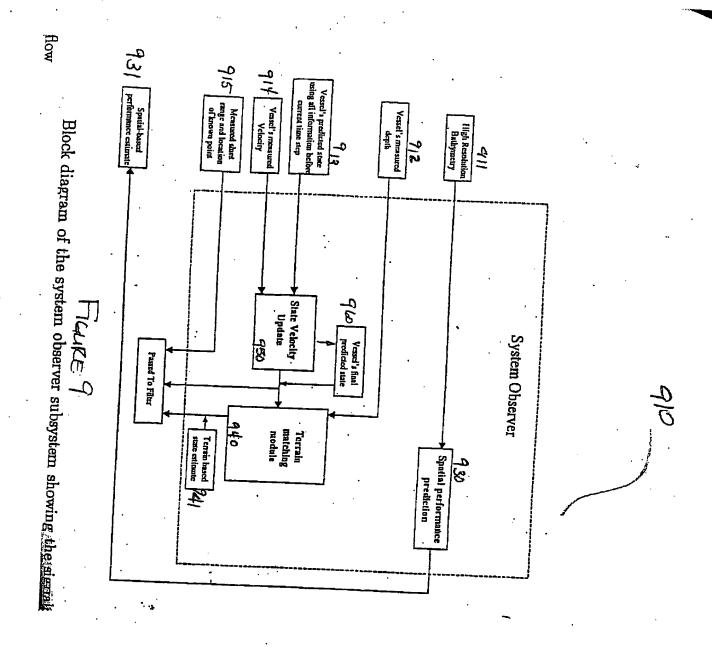
SAGE 28/36 \* RCVD AT 4/27/2004 11:29:37 AM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/2 \* DNIS:8729306 \* CSID:202 404 7380 \* DURATION (mm-ss):13-02



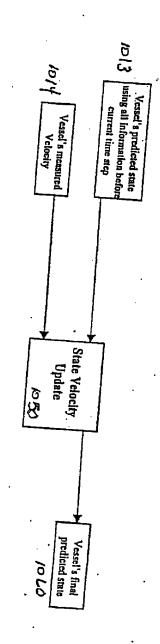
Block diagram of the system showing the two primary subsystems

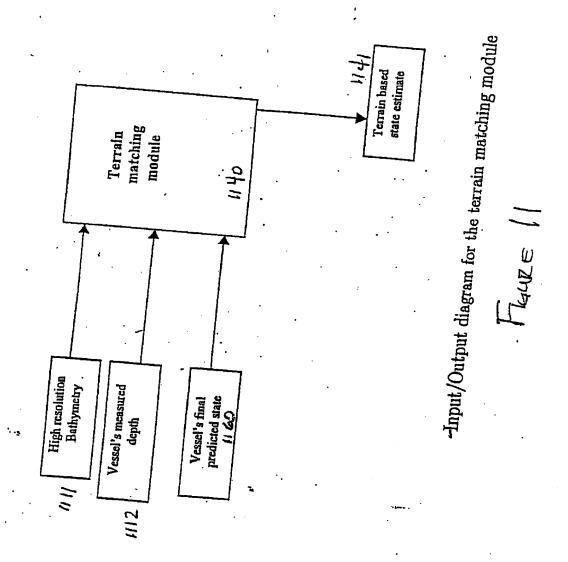
FIGURE 8

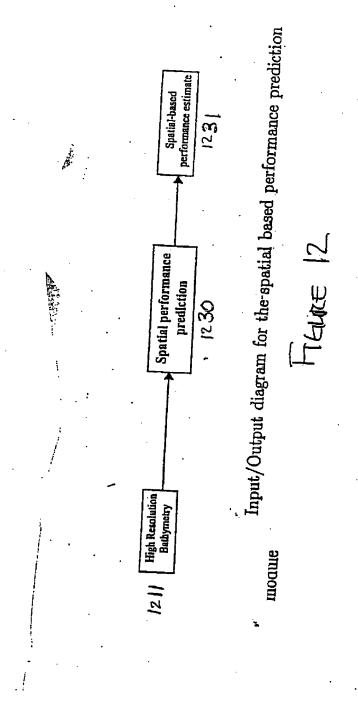
Transfer of August

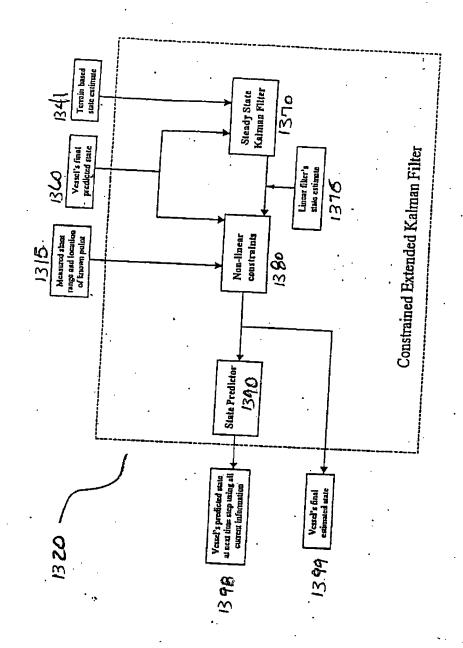


Input/Output diagram for the state velocity update

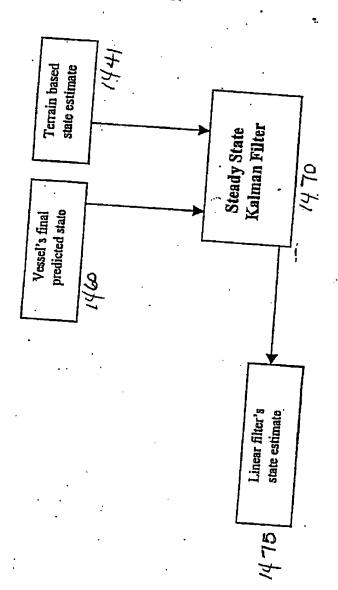


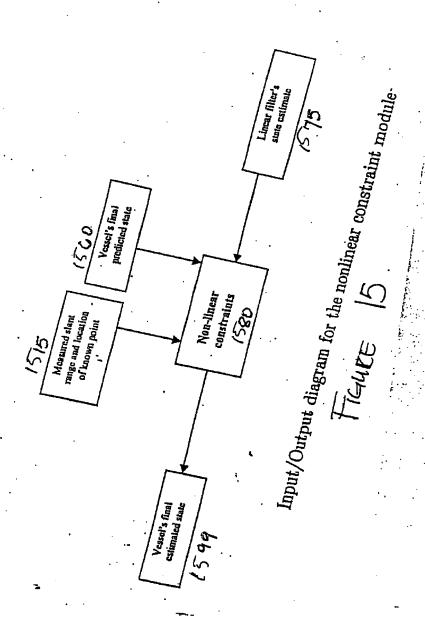


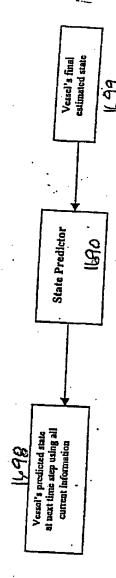




·Block diagram of the constrained extended Kalman filter subsystem showing the signal flow







Input/Output diagram for the state predictor